

EXHIBIT A

Curriculum Vitae

Gary A. Levy, MD, FRCP(C)

(Last Updated: April 22, 2003)

I. Education

1966		Forest Hill Collegiate, Toronto, Canada
1969	B.Sc.	University of Toronto, Toronto, Canada
1973	M.D.	University of Toronto, Toronto, Canada
1978	F.R.C.P.(C)	Internal Medicine
1978	F.R.C.P.(Gastro)	Gastroenterology

II. Postgraduate Education

1973-74	Intern, Rotating	Mount Sinai Hospital, Toronto, Canada
1974-75	Resident, Internal Medicine	Toronto General Hospital, Toronto, Canada
1975-76	Resident, Internal Medicine	Mount Sinai Hospital, Toronto, Canada
1976-77	Resident, Gastroenterology	St. Michael's Hospital, Toronto, Canada
1977-78	Resident, Gastroenterology	Sunnybrook Health Science Centre, Toronto, Canada
1979-81	Fellow, Immunology	Scripps Clinic and Research Foundation, La Jolla, CA

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III. Academic Appointments

1981-85	Consultant, Gastroenterology	Sunnybrook Medical Centre, Toronto, Canada
1981-85	Assistant Professor of Medicine	Department of Medicine, University of Toronto, Toronto, Canada
1985-present	Consultant, Gastroenterology	Mt. Sinai Hospital, Toronto, Canada
1985-present	Associate Staff	Toronto General Hospital Toronto, Canada
1986-1990	Associate Professor of Medicine	Department of Medicine, University of Toronto, Toronto, Canada
1986-89	Co-Director Liver Transplant Program	University of Toronto Toronto, Canada
1989-92	Director GI Transplant Program	University of Toronto Toronto, Canada
1989-present	Director Research, Transplant Program	University of Toronto Toronto, Canada
1990-present	Division Director Div. of Gastroenterology	University of Toronto Toronto, Canada
1990-present	Professor of Medicine	Department of Medicine University of Toronto Toronto, Canada
1992-present	Program Director	Multi-Organ Transplant Program University Health Network University of Toronto
1995-96	Vice-President	Canadian Association of Gastroenterology

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1996-97	President-Elect	Canadian Association of Gastroenterology
1997-98	President	Canadian Association of Gastroenterology
1998-2000	Past-President	Canadian Association of Gastroenterology
2000-	President	Canadian Digestive Health Foundation

IV. Graduate Faculty

Department of Pathology	1984-present
Institute of Medical Science	1986-present
Department of Immunology	1986-present

V. Teaching

University of Toronto Undergraduate Immunology Course	1996
University of Toronto Undergraduate Immunology Course	1997
University of Toronto Undergraduate Immunology Course	1998
University of Toronto Undergraduate Immunology Course	1999
University of Toronto Undergraduate Immunology Course	2000
University of Toronto Undergraduate Immunology Course	2001
University of Toronto Undergraduate Immunology 1020S	
Recent Advances in Clinical Immunology	March 2001
University of Toronto Graduate LMP 1020S	
Inflammation, Immunity and Immunopathology	March 2001

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University of Toronto Undergraduate Immunology Course	2002
University of Toronto Undergraduate Immunology Course	2003
University of Toronto Undergraduate Immunology 1020S Recent Advances in Clinical Immunology Title: Immunology of Transplant Rejection	March 13, 2003
University of Toronto Graduate LMP 1020S Inflammation, Immunity and Immunopathology Title: Current Advances in Allogeneic and Xenogeneic Transplantation	April 3, 2003

VI. Awards and Honours

1966	Ontario Secondary School Scholarship
1971	Hospital For Sick Children Summer Scholarship
1972	Canadian Liver Foundation Summer Scholarship
1979-81	Medical Research Council of Canada Fellowship
1981	Medical Research Council of Canada Scholarship
1983	William Goldie Prize in Medicine
1988	Elected to the American Society for Clinical Investigation
1988	William Goldie Prize in Medicine
1994	Canadian Association of Gastroenterology Visiting Research Professor
1994	Vice President, Canadian Association of Gastroenterology
1995	Sandoz Award, Clinical Research Society of Toronto
1996	Department of Medicine Research Award, University of Toronto

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| 2001 | Honorary Professor, Wuhan University, People's Republic of China |
| 2002 | Canadian Liver Foundation Commemorative Medal for the Queen's Jubilee |

VII.

Chief Scientific Officer - Transplantation Technologies Inc. 1997-2002

VIII. Research Experience

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| 1967-68 | Hospital for Sick Children, Toronto
Lipid Research |
| 1968-69 | Hospital for Sick Children, Toronto
Vitamin E Research |
| 1970-71 | Department of Medicine, University of Toronto
Radioimmunoassay of Bile Acids |
| 1971-72 | Department of Medicine, University of Toronto
Bile Acid Metabolism |
| 1978 | Surmontil and Duodenal Ulcer Disease |
| 1979-81 | Scripps Clinic and Research Foundation, La Jolla, CA
Immunology of the Liver-Viral Induced Liver Injury. |

VIX. Publications

A. Original Research Manuscripts

1. Levy, G.A. and Edgington, T.S. Lymphocyte co-operation is required for amplification of macrophage procoagulant activity. J. Exp. Med. 151:1232:1980.
2. Levy, G.A. and Edgington, T.S. Lymphocyte procoagulant activity and mitogenesis in the C3H/HeJ mouse: Discordant response to lipopolysaccharide stimulation. J. Immunology 124:2665:1980.
3. Schwartz, B.S., Levy, G.A., Curtiss, L.K., Fair, D.S., and Edgington, T.S. Plasma lipoprotein induction and suppression of procoagulant activity in-vitro. I. Two procoagulant activities are produced by peripheral blood mononuclear cells. J. Clin. Invest. 67:1650:1981.
4. Levy, G.A., Schwartz, B.S., Curtiss, L.K. and Edgington, T.S. Plasma lipoprotein

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induction and suppression of procoagulant activity in-vitro. II. The requirement for cellular collaboration. *J. Clin. Invest.* 77:1614:1981.

5. Levy, G.A., Schwartz, B.S. and Edgington, T.S. The kinetics and metabolic requirements for direct lymphocyte induction of human procoagulant monokines by bacterial lipopolysaccharide. *J. Immunology.* 127:357:1981.
6. Levy, G.A., Saibil, F.S. and Saibil, E. An unusual case of hepatic calcification. *Medicine.* 185:1284:1981.
7. Levy, G.A., Leibowitz, J.L., and Edgington, T.S. Induction of monocyte procoagulant activity by murine hepatitis virus type 3 parallels disease susceptibility in mice. *J. Exp. Med.* 154:1385:1981.
8. Levy, G.A., and Edgington, T.S. The major histocompatibility complex requirement for cellular collaboration in the murine lymphoid procoagulant response by bacterial lipopoly-saccharide. *J. Immunology.* 128:1284:1982.
9. Schwartz, B.S., Levy, G.A. and Edgington, T.S. Immune- complex induced human monocyte procoagulant activity. II Cellular kinetics and metabolic requirements. *J. Immunology* 128:1037:1982.
10. Schwartz, B.S., Levy, G.A., Fair, D.S. and Edgington, T.S. An inducible prothrombinase of murine monocytes. *J. Exp. Med.* 155:1464:1982.
11. Leibowitz, J.L., Fung, L.S. and Levy, G.A. A sensitive radioimmunoassay for the detection of antibodies to MHV-3. *J. Virol. Methods.* 3:255:1983.
12. Levy, G.A., MacPhee, P., Fung, L.S., Fisher, M.M. and Rappaport, A.M. The effects of MHV-3 infection on the microcirculation of the liver. *Hepatology* 3:964:1983.
13. Ottaway, C.A., Warren, R.E., Saibil, F.S., Fung, L.S. and Levy, G.A. Monocyte procoagulant activity in Whipple's disease. *J. Clin. Immunol. Sep;4(5):348-58:1984.*
14. Levy, G.A., Shaw, R., Leibowitz, J.L. and Cole, E. The immune response to mouse hepatitis virus: Genetic variation in antibody response and disease. *Adv. In Exp. Biol. and Medicine.* 173:345:1984.
15. Levy, G.A., MacPhee, P.J., Fung, L.S., Fisher, M.M. and Rappaport, A.M. The effects of mouse hepatitis virus type 3 on the microcirculation of the liver in inbred strains of mice. *Adv. In Exp. Med. and Biol.* 173:397:1984.
16. Levy, G.A., Helin, H. and Edgington, T.S. The pathobiology of viral hepatitis and

immunologic activation of the coagulation protease network. *Seminars in Liver Disease*. 4:59:1984.

17. Levy, G.A., Schwartz, B.S., Curtiss, L.K. and Edgington, T.S. The regulatory role of Tu and Tg cells in the cellular initiation of the extrinsic coagulation pathway by bacterial lipopolysaccharide. *J. Clin. Invest.* 76:548:1985.
18. MacPhee, P.J., Dindzans, V.J., Fung, L.S. and Levy, G.A. Acute and chronic changes in the microcirculation of the liver in inbred strains of mice following infection with mouse hepatitis virus type 3. *Hepatology*. 5:649:1985.
19. Cole, E.H., Shulman, J., Urowitz, M., Keystone, E., Williams, C. and Levy, G.A. Monocyte procoagulant activity in glomerulonephritis associated with systemic lupus erythematosus. *J. Clin. Invest.* 75:861-868:1985.
20. Cole, E.H., Cardella, C., Williams, C., Schulman, J. and Levy, G.A. Monocyte procoagulant activity (MPCA) and plasminogen activator (MPA): Role in human renal allograft rejection. *Transplantation*. 40:363:1985.
21. Dindzans, V.J., MacPhee, P.J., Fung, L.S., Leibowitz, J.L. and Levy, G.A. The immune response to mouse hepatitis virus: Expression of monocyte procoagulant activity and plasminogen activator during infection in-vivo. *J. Immunology*. 135(6):4189-4197:1985.
22. Shaw, R., Cole, E.H., Leibowitz, J.L. and Levy, G.A. The immune response to mouse hepatitis virus: Genetic variation in antibody response and disease. *J. Gen. Virol.* 138:2128:1985.
23. Dindzans, V.J., Skamene, E. and Levy, G.A. Susceptibility/resistance to murine hepatitis virus strain 3 (MHV-3) and monocyte procoagulant activity (MPCA) are genetically linked and controlled by 2 Non H-2 linked genes. In: *Genetic control of host resistance: Progress in Leukocyte Biology*. 3:151:1985.
24. Dindzans, V.J., Skamene, E. and Levy, G.A. Susceptibility/resistance to murine hepatitis virus strain 3 (MHV-3) and monocyte procoagulant activity (MPCA) are genetically linked and controlled by 2 Non H-2 linked genes. *J. Immunol.* 136:2355:1986.
25. Cole, E.H., Sweet, J. and Levy, G.A. Induction of monocyte procoagulant activity in the BXS mouse: An important mediator in glomerulonephritis. *J. Clin. Invest.* 78:1:1986.
26. Cohen, Z., Silverman, R.E., Wassef, R., Levy, G.A., Burnstein, M., Cullen, J., Makowka, L., Langer, B. and Greenberg, G.R. Small intestinal transplantation using cyclosporine A (CsA): Report of a Case. *Transplantation*.

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27. Abecassis, M., Falk, R.E., Falk, J.A., Makowka, L. and Levy, G.A. 16,16 Dimethyl Prostaglandin E₂ (PGE₂) prevents the development of fulminant hepatitis and blocks the induction of monocyte procoagulant activity (PCA) following murine hepatitis virus strain 3 (MHV-3) infection. *J. Clin. Invest.* 80:881:1987.
28. Dindzans, V.J., Zimmerman, B., Sherker, A. and Levy, G.A. Susceptibility to mouse hepatitis virus strain 3 in BALB/cJ mice: Failure of immune cell proliferation and interleukin 2 production. *Adv. in Exp. Med and Biol.* 218:411-420:1987.
29. Abecassis, M., J. Falk, L. Makowka, V. Dindzans, R. Falk and G. Levy. Cyclosporin A (CsA) fails to alter innate resistance to murine hepatitis virus strain 3 (MHV-3) infection in A/J mice. *Advances in Med. and Biol.* 218:437- 440:1987
30. Abecassis, M., V. Dindzans, W. Lopatin, L. Makowka, J. Falk, G. Levy and R. Falk. Prostaglandin E₂ (PGE₂) prevents fulminant hepatitis and the induction of procoagulant activity (PCA) in susceptible animals. *Advances in Exp. Med. and Biol.* 218:437-440:1987.
31. Silverman, R., Cohen, Z., Levy, G., Craig, M., Cullen, J. and Langer, B. Immune responses in small intestinal transplantation in the rat: correlation of histopathology and monocyte procoagulant activity (PCA). *Surgery.* 102:395:1987.
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33. Rosenthal, G.A., Levy, G.A., Rotstein, O.D. *Bacteroides Fragilis* induces procoagulant activity by macrophages: A potential mechanism for abscess formation. *Surgical Forum.* 24:103-104:1988.
34. Levy, G., Abecassis, M. Activation of the immune coagulation system by the coronavirus murine hepatitis virus strain 3. *Annual Reviews of Infectious Diseases.* 11(4):S712-S721:1989.
35. Wakefield, A.J., Cohen, Z., Craig, M., Connolley, P., Jeejeebhoy, K.N. Silverman, R. and Levy, G.A. The thrombogenicity of TPN solutions: I. Effect on induction of monocyte/macrophage procoagulant activity. *Gastroenterology* 97(5):1210-1219:1989.
36. Wakefield, A.J., Cohen, Z., Rosenthal, M. Craig, M., Jeejeebhoy, K.N., Gottlieb, A. and Levy, G.A. The Thrombogenicity of Total Parenteral Nutrition Solutions:

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II. Effect of Induction of Endothelial Cell Procoagulant Activity. *Gastroenterology* 97(5):1220-1228:1989.

37. Silverman, R.E., Cohen, Z., Craig, M., Langer, B. and Levy, G.A. Monocyte/macrophage procoagulant activity (PCA) as a measure of immune responsiveness in Lewis and Brown Norway inbred rats: Discordance with lymphocyte proliferative assays. *Transplantation*. 47:542-548:1989.
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39. Rosenthal, G.A., Levy, G.A., Rotstein, O.D. Induction of macrophage procoagulant activity by bacteroides fragilis. *Infection and Immunity*. 57:338-343:1989.
40. Goldberg, H.J., Wong, P.Y., Cole, E.H., Levy, G.A and Skorecki, K.L. Dissociation between the immunosuppressive activity for cyclosporine derivatives and their effects on intracellular calcium signalling in mesangial cells. *Transplantation*. 47(4):731-733:1989.
41. Sinclair, S.B., Greig, P.D., Blendis, L.M., Abecassis, M., Roberts, E.A., Phillips, M.J., Cameron, R., Levy, G.A. Biochemical and clinical response of fulminant viral hepatitis to administration of prostaglandin E: A preliminary report. *Journal of Clinical Investigation*. 84:1063-1069:1989.
42. Sinclair, S.B., Wakefield, A. and Levy, G.A. Fulminant Hepatitis. In: *Immunopathology of Liver Disease*. Springer Seminars in Immunopathology, H. C. Thomas eds. Springer- Verlag 12:1-13:1990
43. Kim, P.C.W., Cohen, Z., Craig, M., Cullen, J. and Levy G.A. Characterization of Immune Responses in Different Lymphoid Compartments During Small Intestinal Allograft Rejection: Correlation Between Procoagulant Activity (PCA) and Histopathology. *Am. J. Surgery*. 159:161-166:1990.
44. Wanless, I.R., Dore, S., Gopinath, N., Tan, J., Cameron, R., Heathcote, E.J., Blendis, L.M., Levy, G. Histopathology of cocaine hepatotoxicity: Report of four cases. *Gastroenterology*. 98:497-501:1990.
45. Wu, T.W., Samuel, C.K. Yiu, Au, J.X., Greig, P.D., Strasberg, S.M., Ettles, M., Abecassis, M., Superina, R.A., Langer, B., Blendis, L.M., Phillips, M.J., Taylor, B.R., Levy, G.A. Conjugated and delta bilirubin are complementary markers of rejection in liver transplant recipients. *Clinical Chemistry*. 36(3):9-14:1990.
46. Cole, E.H., Sweet, J., Laskin, C. and Levy, G.A. The effect of defibrinating agent

- (ancrod) on intrarenal fibrin deposition, macrophage PCA and survival in the BXSB model of systemic lupus erythematosus. *Kidney Int'l.* 37:29-35:1990.
47. Wakefield, A., Cohen, Z. and Levy, G. Procoagulant Activity in Gastroenterology. *Gut.* 31:239-41:1990.
 48. Flowers, M., Wanless, I., Heathcote, J., Inman, R., Sherman, M., Reynolds, W., Cameron, R., Levy, G.A. Fulminant Hepatitis as a Consequence of Reactivation of Hepatitis B Virus Infection Following Withdrawal of Low Dose Methotrexate Therapy. *Annals of Internal Medicine.* 112:381-2:1990.
 49. Sinclair, S.B., Rotstein, O.D., Levy, G.A. Disparate induction of procoagulant activity by live and inactivated bacteria and viruses. *Infection and Immunity.* 58(6):1821-27:1990.
 50. Sinclair, S., Abecassis, M., Wong, P.Y., Romaschin, A., Fung, L.S. and Levy, G.A. Mechanism of protective effect of prostaglandin E in murine hepatitis virus strain 3 infection: Effects on macrophage production of tumour necrosis factor, procoagulant activity and leukotriene B₄. *Adv. Exp. Med. and Biol.* 1990:276:533.
 51. Kim, P., Cohen, Z., Craig, M., Cheung, F., Wong, P.Y., Cullen, J. and Levy, G.A. Effects of cyclosporin A (CsA) and cyclosporin A metabolites (CM) in experimental small intestinal transplantation (SIT). *Transplantation* 40(6):1990.
 52. Chung, S.W., Sinclair, S.B., Leibowitz, J.L., Skamene, E., Levy, G.A. Cellular and metabolic requirements for induction of macrophage procoagulant activity by murine hepatitis virus strain 3 in-vitro. *J. Immunol.* 146:271- 278:1991.
 53. Fung, L.S., Neil, G., Leibowitz, J., Cole, E.H., Levy, G.A. Monoclonal antibody analysis of a unique procoagulant activity induced by murine hepatitis virus strain 3 infection. *J. Biol. Chem.* 1991:266:1789-1795.
 54. Chung, S., Greig, P.D., Levy, G.A. Postoperative management of the liver transplant patient. *Medicine North America.* 1991:16:2100-2107.
 55. Phillips, M.J., Blendis, L.M., Poucell, S., Patterson, J., Petric, M., Roberts, E., Levy, G.A., Superina, R.A., Greig, P.D., Langer, B., Purcell, R.H. Syncytial giant cell hepatitis: sporadic hepatitis with distinctive pathology, severe clinical course and paramyxoviral features. *New England Journal of Medicine.* 1991:324:455-460.
 56. Chung, S., Langer, B., Levy, G. Identification and regulation of macrophage procoagulant activity (PCA) in a murine model of viral hepatitis (MHV-3). *Surgical Forum.* XLI:88-91:1991.

57. Levy, G.A. and Sinclair S. Treatment of Fulminant Hepatic Failure with Prostaglandins. *Digestive Diseases and Sciences*. 1991:36(6):791.
58. Chung, S., Kim, P., Koh, I., Cohen, Z., Levy, G. Allogeneic stimulation of monocyte/macrophage procoagulant activity - cellular kinetics and inhibition by cyclosporin A and dmPGE₂. *Immunology* 1991:42(6):501-513.
59. Clavien, P., Morgan, G., Sanabria, J., Petrunka, C., Levy, G., Harvey, R., Strasberg, S. Effect of cold preservation on lymphocyte adherence in the perfused rat liver. *Transplantation*. 1991:52(3):412-417.
60. Chung, S., Sinclair, S., Fung, L.S., Levy, G. Effect of eicosanoids on induction of procoagulant activity by murine hepatitis virus strain 3 in vitro. *Prostaglandins*. 1991:42(6):501-513.
61. Li, C., Fung, L.S., Crow, A., Myers-Mason, N., Leibowitz, J., Cole, E., Levy, G. Monoclonal anti-prothrombinase (3D4.3) prevents mortality from murine hepatitis virus infection (MHV-3). *J. Exp. Med.* 1992:176:689-697.
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64. Holloway, C., Chung, S., Strasberg, S., Levy, G. Mechanisms of liver preservation injury. *Journal of Applied Physiology*. 1992:6(suppl):28-31.
65. Cywes, R., Greig, P.D., Sanabria, J.R., Clavien, P., Levy, G.A., Harvey, P.R.C., Strasberg, S.M. Effect of intraportal glucose infusion on hepatic glycogen content and degradation, and outcome of liver transplantation. *Ann. Surg.* 1992: 216(3):235-236.
66. Fingerote, R., Levy, G.A. Mechanisms and Treatment of Ischemic Reperfusion Liver Injury. *Transplantation*. 1992:3(4):154-161.
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69. Cywes, R., Mullen, J.B.M., Stratis, M.A., Greig, P.D., Levy, G.A., Harvey, P.R.C., Strasberg, S.M. Prediction of the outcome of transplantation in man by platelet adherence in donor liver allografts. *Transplantation*. 1993;56:316-323.
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75. Chung, S., Li, C., Fung, L.S., Crow, A., Gorczynski, R., Cole, E., Perlman, S., Leibowitz, J., Levy, G. Role of macrophage procoagulant activity in mouse hepatitis virus (MHV) infection: Studies using T cell MHV-3 clones and monoclonal antibody 3D4.3. *Adv. Exp. Med. Biol.* 1993;342:377-384.
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 90. Terminology for Hepatic Allograft Rejection. World Gastroenterology Consensus Document. *International Working Party Hepatology*, 1995;22(2):648-654.
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B. Submitted or in Preparation

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